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1 Collaboration by illustration: real-time visualization in Web3D
Frank Goetz, Bernd Eßmann, Thorsten Hampel
April 2006 Web3D '06: Proceedings of the eleventh international conference on 3D web technology
Publisher: ACM
Full text available: 📄 Pdf (732.41 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 139, Citation Count: 1

Graphical representation of complex data sets is an important method for supporting scientific
collaboration. Following this idea, we developed a novel Web3D-based visualization framework that
supports synchronous as well as asynchronous cooperation, ...

Keywords: collaborative visualization, computer supported cooperative work, realtime rendering,
remote visualization

2 The evolution of Erlang drivers and the Erlang driver toolkit
Scott Lystig Fritchie
October 2002 ERLANG '02: Proceedings of the 2002 ACM SIGPLAN workshop on Erlang
Publisher: ACM
Full text available: 📄 Pdf (140.74 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation Count: 1

Erlang is gaining a reputation as a good language for rapid prototyping, but one area where its
reputation is weaker than those of traditional scripting languages is extensibility. Erlang is actually
fairly easy to extend, but the learning curve is steep. ...

Keywords: Erlang, code generation, functional programming, language extensibility

3 The holodeck ray cache: an interactive rendering system for global illumination in nondiffuse
environments
Gregory Ward, Maryann Simmons
October 1999 ACM Transactions on Graphics (TOG), Volume 18 Issue 4
Publisher: ACM
Full text available: 📄 Pdf (935.74 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 69, Citation Count: 11

We present a new method for rendering complex environments using interactive, progressive,
view-independent, parallel ray tracing. A four-dimensional holodeck data structure serves as a
rendering target and caching mechanism for interactive ...

Keywords: illumination, image reconstruction, mesh generation, ray tracing, rendering system,
virtual reality

4 Evaluation of Applying SpecC to the Integrated Design Method of Device Driver and Device
Shinya Honda, Hiroaki Takada
March 2003 DATE '03: Proceedings of the conference on Design, Automation and Test in
           Europe: Designers' Forum - Volume 2, Volume 2
Publisher: IEEE Computer Society

Full text available: 📱 Publisher Site , 📄 Pdf (262.84 KB) **Additional Information:** full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 0

> We are investigating an integrated design method for a device driver and a device in order to
> efficiently develop device drivers used in embedded systems. This paper evaluates whether SpecC,
> which is proposed as a system level description language, is ...

5 XenLoop: a transparent high performance inter-vm network loopback
Jian Wang, Kwame-Lante Wright, Kartik Gopalan
June 2008 HPDC '08: Proceedings of the 17th international symposium on High performance
           distributed computing
Publisher: ACM

Full text available: 📄 Pdf (410.71 KB)   **Additional Information:** full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 36, Citation Count: 0

> Advances in virtualization technology have focused mainly on strengthening the isolation barrier
> between virtual machines (VMs) that are co-resident within a single physical machine. At the same
> time, a large category of communication intensive distributed ...

> Keywords: inter-vm communication, virtual machine, xen

6 Secure deletion for a versioning file system
Zachary N. J. Peterson, Randal Burns, Joe Herring, Adam Stubblefield, Aviel D. Rubin
December 2005 FAST'05: Proceedings of the 4th conference on USENIX Conference on File and
              Storage Technologies - Volume 4, Volume 4
Publisher: USENIX Association
Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1

> We present algorithms and an architecture for the secure deletion of individual versions of a file.
> The principal application of this technology is federally compliant storage; it is designed to eliminate
> data after a mandatory retention period. However, ...

7 Netstub: a framework for verification of distributed java applications
Elliot Barlas, Tevfik Bultan
November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international conference on
              Automated software engineering
Publisher: ACM
Full text available: 📄 Pdf (421.58 KB)   **Additional Information:** full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 73, Citation Count: 0

> Automated verification of distributed programs is a challenging problem. Since the behavior of a
> distributed program encompasses the behavior of the network, possible configurations of the
> network have to be investigated during verification. This leads ...

> Keywords: automated verification, model checking, testing and verification of

8

◆ GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes
Publisher: ACM
Full text available: 📄 Pdf (63.03 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 165, Downloads (12 Months): 1466, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

9 Writing and Intelligent Serial Driver
Randolph Bentson
September 1994 Linux Journal, Volume 1994 Issue 5es
Publisher: Specialized Systems Consultants, Inc.
Full text available: 📄 Html (10.57 KB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Citation Count: 0

10 EXPLODE: a lightweight, general system for finding serious storage system errors
Junfeng Yang, Can Sar, Dawson Engler
November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design and
                  implementation
Publisher: USENIX Association
Full text available: 📄 Pdf (731.30 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Citation Count: 2

Storage systems such as file systems, databases, and RAID systems have a simple, basic contract: you give them data, they do not lose or corrupt it. Often they store the only copy, making its irrevocable loss almost arbitrarily bad. Unfortunately, their ...

11 Fault secureness need for next generation high performance microprocessor design for
◆ testability structures
C. Metra, T. M. Mak, M. Omaña
April 2004   CF '04: Proceedings of the 1st conference on Computing frontiers
Publisher: ACM
Full text available: 📄 Pdf (999.14 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 21, Citation Count: 0

We analyze the risks associated with faults affecting some Design For Testability (DFT) features employed within todays' high performance microprocessors. We will show that, because of the occurrence of internal faults, some of these structures may become ...

Keywords: built in self test, comparator, design for testability, fault secureness, microprocessor

12 Inter-Layer Coordination for Parallel TCP Streams on Long Fat Pipe Networks
Hiroyuki Kamezawa, Makoto Nakamura, Junji Tamatsukuri, Nao Aoshima, Mary Inaba, Kei Hiraki
November 2004 SC '04: Proceedings of the 2004 ACM/IEEE conference on Supercomputing
Publisher: IEEE Computer Society
Full text available: 📄 Pdf (420.72 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 34, Citation Count: 2

As the network speed grows, inter-layer coordination becomes more important. This paper shows 3 inter-layer coordination methods; (1) "Comet-TCP"; cooperation of data-link layer and transport layer using hardware, (2) "Transmission Rate Controlled TCP ...

13 All digital built-in delay and crosstalk measurement for on-chip buses

Chauchin Su, Yue-Tsang Chen, Mu-Jeng Huang, Gen-Nan Chen, Chung-Len Lee
January 2000 DATE '00: Proceedings of the conference on Design, automation and test in Europe
Publisher: ACM

Full text available: Publisher Site , Pdf (168.37 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 8, Citation Count: 2

14 GPU memory model overview

Aaron Lefohn
July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Courses
Publisher: ACM

Full text available: Pdf (367.94 KB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 238, Citation Count: 0

15 An integrated approach to the development of wireless network protocols

David Lapsley, Marcos Bergamo
September 2006 WiNTECH '06: Proceedings of the 1st international workshop on Wireless network testbeds, experimental evaluation & characterization
Publisher: ACM

Full text available: Pdf (10.39 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 78, Citation Count: 0

BBN Technologies (BBN), under complementary tasks for NASA, designed the High-Throughput Distributed Space-craft Network (HiDSN), developed a laboratory prototype network testbed and, currently, is integrating support for virtual-private-networks (VPN) ...

Keywords: GNU radio, HiDSN, NASA, TCeMA, mathematica, software defined radio

16 Design space exploration for 3D architectures

Yuan Xie, Gabriel H. Loh, Bryan Black, Kerry Bernstein
April 2006 ACM Journal on Emerging Technologies in Computing Systems (JETC), Volume 2 Issue 2
Publisher: ACM

Full text available: Pdf (1.93 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 399, Citation Count: 4

As technology scales, interconnects have become a major performance bottleneck and a major source of power consumption for microprocessors. Increasing interconnect costs make it necessary to consider alternate ways of building modern microprocessors. ...

Keywords: 3D integration, hardware, microarchitecture, processor architectures

17 Feasibility study of mesh networks for all-wireless offices

Jakob Eriksson, Sharad Agarwal, Paramvir Bahl, Jitendra Padhye
June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM

Full text available: 📄 Pdf (898.97 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 182, Citation Count: 5

There is a fair amount of evidence that mesh (static multihop wireless) networks are gaining popularity, both in the academic literature and in the commercial space. Nonetheless, none of the prior work has evaluated the feasibility of applications on ...

Keywords: mesh network, wireless office

18 Designing a trust chain for a thin client on a live Linux cd
◈ Megumi Nakamura, Seiji Munetoh
March 2007 SAC '07: Proceedings of the 2007 ACM symposium on Applied computing
Publisher: ACM
Full text available: 📄 Pdf (176.16 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 67, Citation Count: 0

CD-boot Linux[i] is a live Linux environment, which is easy to use because it is not installed in the hard disk, but simply boots directly from a CD. This helps protect the sensitive information because a clean environment can be prepared at ...

Keywords: thin client, trusted computing

19 Practical techniques for purging deleted data using liveness information
◈ David Boutcher, Abhishek Chandra
July 2008   ACM SIGOPS Operating Systems Review, Volume 42 Issue 5
Publisher: ACM
Full text available: 📄 Pdf (1.02 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1016, Downloads (12 Months): 1016, Citation Count: 0

The layered design of the Linux operating system hides the *liveness* of file system data from the underlying block layers. This lack of liveness information prevents the storage system from discarding blocks deleted by the file system, often resulting ...

20 Generalized file system dependencies
◈ Christopher Frost, Mike Mammarella, Eddie Kohler, Andrew de los Reyes, Shant Hovsepian, Andrew Matsuoka, Lei Zhang
October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles
Publisher: ACM
Full text available: 📄 Pdf (361.95 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 44, Downloads (12 Months): 343, Citation Count: 2

Reliable storage systems depend in part on "write-before" relationships where some changes to stable storage are delayed until other changes commit. A journaled file system, for example, must commit a journal transaction before applying that transaction's ...

Keywords: dependencies, file systems, journaling, soft updates

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